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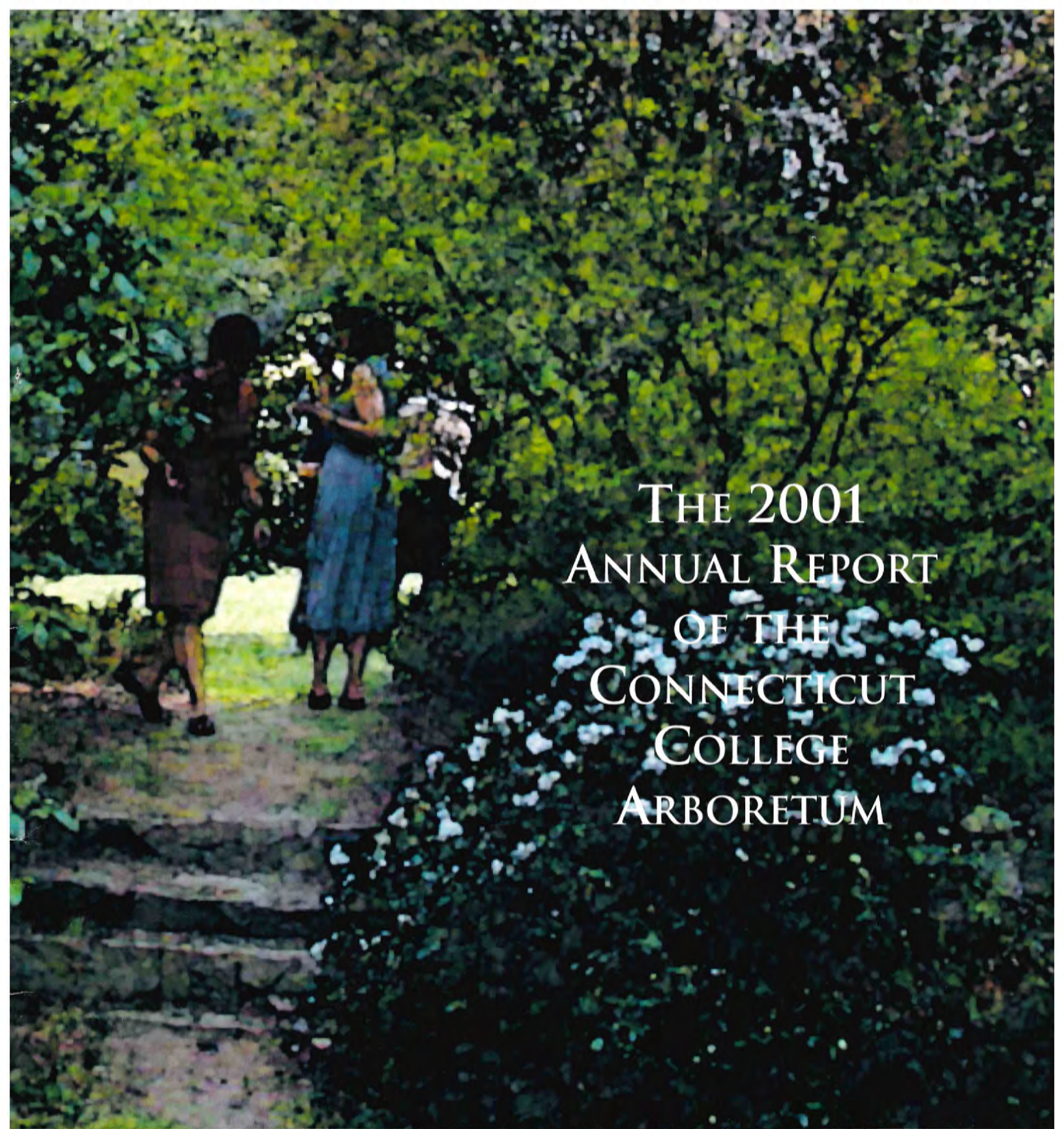
Arboretum Annual Report, 2001

Connecticut College

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THE 2001
ANNUAL REPORT
OF THE
CONNECTICUT
COLLEGE
ARBORETUM



GARDENS FOR PEACE

Promoting Peace In The World
Through The Universal
Language Of Gardens.

May 4, 2001



CONNECTICUT COLLEGE ARBORETUM MISSION STATEMENT

The Connecticut College Arboretum is owned by Connecticut College and operated for the benefit of the College and the community. The Arboretum functions in support of the College's mission by helping to prepare men and women for a lifetime of learning about and interacting with the natural world. The mission of the Connecticut College Arboretum is:

TEACHING

To provide an outdoor laboratory for use by faculty and students in Botany, Zoology, Biology, Environmental Studies and other departments. In both teaching and research the Arboretum is a unique and valuable academic resource and support facility.

RESEARCH

To support and conduct research in a broad range of subjects including ecology, field biology, conservation and natural history. Arboretum research emphasizes long-term studies.

CONSERVATION

To provide stewardship of College lands by protecting, sustaining and enhancing biological diversity of large tracts of open-space. The Arboretum also provides leadership statewide and beyond in conservation matters.

COLLECTIONS

To maintain, develop and interpret well-documented plant collections for teaching, research, public education and enjoyment.

RECREATION

To provide a place where people from the College and the community may enjoy passive recreation and where they may come to learn, reflect and renew themselves through contact with the natural world. The Arboretum enhances the quality of life both for the College and the citizens of southeastern Connecticut.

PUBLIC EDUCATION

To provide programs and publications about conservation, horticulture, gardening, botany and natural history which enhance people's understanding of the natural world and foster an understanding of the Arboretum's mission.

FROM THE DIRECTOR

FOR THE ARBORETUM, 2001 WAS A YEAR IN WHICH WE REAFFIRMED the centrality of the academic use of our collections and natural areas. The hiring of a new Plant Ecologist, Dr. Christine Small, was an important step. Dr. Small began plans to supervise a team of students who will inventory the Bolleswood Natural Area vegetation in a research project initiated 50 years ago. This study is one of the longest running and most detailed of its kind in the world and had spawned generations of projects, publications and inspired students to become ecologists. Of course many other faculty members continue to utilize the Arboretum for everything from archaeology and ethnobotany to hydrology and erosion studies. As a living laboratory, it continues to be a unique resource for our liberal arts curriculum.

It was also a year to celebrate a grand old teaching garden, established by Dr. Caroline Black in 1928. The Caroline Black Garden's low profile was elevated in May when it became a member of the international Gardens For Peace network with a big celebration on a very hot day. It also received new gates and fencing and water supply. Ironically, by the fall semester, our country was no longer at peace, and the Black Garden was already serving its role as place of sanctuary and contemplation amid an increasingly tense and fearful society.

Please take a few minutes to look back at our review of 2001. I think you will find many things that together add up to a fine year and an optimistic view of the past and the future.

Glenn Dreyer

Charles and Sarah P. Becker '27 Arboretum Director



*Professor Emeritus Richard Goodwin and
Arboretum Director Glenn Dreyer at
Gardens for Peace dedication ceremony.*

EDUCATION



THE YEAR 2001 WAS A BUSY ONE, and a total of 772 individuals attended Connecticut College Arboretum Educational Programs. A two-day symposium for landscape architects and designers brought 134 participants to the college in the middle of January. This was the 11th year of "New Directions in the American Landscape," an annual symposium that deals with the art and science of ecological landscape design. A diverse group of designers, horticulturists, scientists, and artists participated in "Expressing Nature and Culture in the Designed Landscape," which featured many renowned speakers in these fields. This symposium was co-sponsored by the Morris Arboretum of the University of Pennsylvania and by Larry Weaner's New Directions in the American Landscape. It was offered in both New London and Philadelphia.

Our public education programs got off to a good start in February with guest speaker Diana Muir's presentation "Cities of Steam: Environmental Crisis and Response." Ms. Muir's award-winning book, "Reflections in Bullough's Pond: Economy and Ecosystems in New England," was the text used by Kathy Garvin for a book discussion later in February. Nancy DuBrule, author, teacher and the owner of Natureworks, presented a lecture titled "Creating a Garden Legacy for Our Children's Children," demonstrating the impact that each of us can make on the earth for future generations.

Jim Luce conducted a winter tree identification workshop, and we enjoyed a bus trip to Logee's Greenhouses in Danielson in March, giving attendees that "horticultural pick-me-up" that is needed after a long winter. A Beginner Bonsai Workshop with Jeff Smith was held in March as well as a Spring Pruning workshop taught by Jim Luce. The March classes ended with "Adventures in Plant Propagation," a workshop taught by Arboretum Intern, Jessica Korecki.

In April, the Arboretum staff, members, and the general public traveled to Farmington to attend the Centennial Symposium of the New England Wild Flower Society co-sponsored by the Arboretum. Further spring offerings included a slide/lecture presentation with Laura Eisner, Landscape Designer and President of Horticultural Resources, whose topic was "Gardening with Vines." Laura is a Connecticut College alumna with the ability to combine practical horticultural knowledge and botanical principles with pure natural beauty in the home landscape. In the "Let's Build a Trellis" workshop with Frank Hamm, participants created their own trellis on which their vines could grow, each person taking home his own trellis made from branches and twigs collected in the Arboretum.

Early May was a busy and special time for the Arboretum. The month began with Glenn Dreyer conducting a Wildflower Garden Walk in the Edgerton and Stengel Memorial Wildflower Garden. A highlight of spring was the dedication of the Caroline Black Garden as a member of the Gardens for Peace organization (see sidebar).

Our summer educational programs began with the Annual Members' and Friends' Night, an open house traditionally held the first Friday of every June. Our guest speaker was Louis Raymond, garden designer and Show Designer for the New England Flower Show, speaking on "The Wall to Wall Carpeting of America." The audience enjoyed his unconventional approach and sense of humor as he presented information about the extremes Americans go to in order to attain the "perfect" lawn. Volunteers were recognized, Photo Contest prizes were awarded, and highlights of the year were presented, followed by a reception in Olin Lounge and an exhibition of the photography contest entries.



In early June members traveled to Lebanon, Conn. to enjoy a wholesale plant-buying visit to Prides Corner Farms, and Naturalist Wendy Dreyer conducted a walk in the Bolleswood Natural Area and Native Plant Collection in which she taught participants how to identify birds by their songs. Later in the month the USDA Natural Resources Conservation Service cosponsored a daylong invasive plants workshop that drew about 100 people from all over Connecticut and Rhode Island.

July found us on a botanical/historical adventure on a bus trip to Naumkeag Gardens and the Berkshire Botanical Gardens in Stockbridge, Massachusetts with lunch at the historic Red Lion Inn. In early August, Dr. Richard Goodwin, Professor Emeritus of Botany, led a walk in the The Nature Conservancy Burnham Brook Preserve in East Haddam. The preserve consists of more than 1,000 acres of woodland, assembled primarily by Dr. and Mrs. Goodwin. It is part of a larger corridor of protected lands that includes Devil's Hopyard State Park. "The Ethnobotany of Southern New England" was the topic of discussion on an August walk in the Native Plant Collection led by Manuel Lizarralde, assistant professor of botany. People learned the role that plants played in the lives of early southern New England Native Americans and in today's society. A trip to Dinosaur State Park with Stan Gaby, local geologist, closed our summer programs.

Autumn was ushered in by the very successful 8th Annual Arboretum Fall Plant Sale in September. During the same weekend Anthropology Professor Harold Juli led an archaeological walk of Mamacoke Island. Lisa Gould, Executive Director of the Rhode Island Natural History Survey, led a group on a walk at Napatree Point Conservation Area in western Rhode Island, and Glenn Dreyer led a Fall Foliage walk in the Native Plant Collection. In October, "A Wild World Indoors," a terrarium workshop, given by Carol King, garden writer and lecturer, sent every person home with their own terrarium. In early November Sally Taylor, Professor Emeritus of Botany, conducted a mini-course entitled "All Evergreens are not Pines" in which students became familiar with conifer families, learning identifying characteristics of the most common species. Rosalind C. "Posy" Benedict, writer and lecturer, gave an interesting presentation, "A Horticultural Approach to Carpets."



In December Jeff Smith presented a workshop "Creating Holiday Wreaths," in which each participant created and took home a wreath. A holiday tree was placed in Olin Lounge and the public and the college community was invited to join the Arboretum staff for holiday refreshments and the trimming of the holiday tree with a naturalistic ornament. Later the tree was planted in the Gries Conifer Collection.



Gardens for Peace, a non-profit organization founded in 1984, promotes the concept of the garden as a place of meditation and peace. Using criteria developed by the University of Georgia's School of Environmental Design, Gardens for Peace identifies gardens around the world that best exemplify and encourage harmony between humankind and nature. The Caroline Black Garden met the criteria, and was the tenth garden to be admitted into this international network, and the third designated in the college category. It took its place along with the gardens at Duke University and Agnes Scott College. Janet Brooks '44 nominated the Caroline Black Garden for this honor.

The dedication took place in the garden on the extremely hot 4th of May. During the morning of the dedication, a symposium titled "A Garden Sanctuary: The Caroline Black Garden" was held at the Lyman Allyn Museum, with presentations by staff and guest speakers including Art History Professor Robert Baldwin, Landscape Designer Sheila Wertheimer '84 and local historian Linda Legassie. Dr. Laura Dorsey, founder of the Gardens For Peace, presided over the afternoon ceremony in the Caroline Black Garden. Speakers included Arboretum Director Richard H. Goodwin, Professor Emeritus Sally Taylor and Director Glenn Dreyer. The dedication was preceded by a guided walk with Professor Sally Taylor and followed up by a reception in the garden.

Opposite page from top: Landscape designer Larry Weaner addressing the annual ecological landscaping conference; Horticulturist Jeff Smith helps workshop participants make bonsai; Participants at the Caroline Black Garden Symposium converse during a break; Assistant Director Kathy Garvin assists members buying plants at Prides Corner Farms Nursery.

This page from top: Landscape designer Laura Eisener '77 provides handouts for her lecture; Member trip to Naumkeag Garden.

COMMUNITY OUTREACH

AZALEAS, BEACH PLUM, BLUEBERRY, HONEYSUCKLE, Viburnum, and Lilac were among a wide offering of native shrubs and trees and choice non-native plants offered this year at the 8th Annual Fall Plant Sale September 22. Bulbs, donated by Sally Taylor, pumpkins, ferns, and a large assortment of perennials were also available. The “Volunteer Corner,” now in its second year, featured plants donated by volunteers at very reasonable prices, and a beautiful Butterfly Magnolia was raffled. New this year was a pre-ordering opportunity offered to the college community and to Arboretum members. Twenty-three outstanding plants, from Roses to Crabapples, all plants not offered at the Fall Sale, were made available at a 15 percent discount. The Arboretum gained 13 new members as a result of this year’s plant sale.

“Capturing the Beauty of Nature – 2001,” the second Arboretum amateur photography contest, was designed to encourage people to view our collections and natural areas as the subject of photographs. There were 81 entries this year and the prints were on exhibit in the F.W. Olin Science Center for three weeks in June. Awards were presented on Members’ and Friends Night. In the color category, first prize went again this year to Frank Kaczmarek; second prize to Susan Parish, third prize to Mark Braunstein; and honorable mention to Lauren Gorham. In the black and white category, Matthew Smith took first prize; John Cyr second prize; Ilene Omerso third prize; and Martin Kramer honorable mention. The judges were Joanne Monk, and Professors Andrea Wollensak, R. Scott Warren and Theodore Hendrickson.

The Arboretum’s first Botanical Boutique, a fundraiser organized and operated by Arboretum staff and volunteers, was held in early December, giving the local and college community an opportunity to obtain gifts for holiday giving. Nature books for children and adults, pictures, posters, calendars, terrariums, plants, botanical jewelry were a few of the items offered. The event created a sense of camaraderie and goodwill in the campus community and extended a hand of friendship to the local community. Shoppers received individual help in making their gift selections and could enjoy holiday refreshments as they shopped in a relaxing atmosphere.

2001 marked the sixth year of the Arboretum public tours program, in which Arboretum volunteer docents guide visitors through our collections. This year tours were offered every Sunday afternoon at 2 p.m. from early May through the end of October. Visitors were met by docents at the blue “Synergy” sculpture in front of the Olin Science Center and guided on a tour through either the Caroline Black Garden, the Campus Landscape or the Native Plant Collection. The Arboretum considers these free tours a service both to the College and the community. Participants also became familiar with our other programs, and we often gain new members. This year the following volunteers served as docents: David Arnold, Nancy Burrows, Ginny Butler, Mary Dowdell, Caroline Driscoll, Joan Flynn, Allen Gauthier, Ashley Hanson, Carol Kimball, Linda Lillie, Barbara Pokorny, Lynn Rinek, and Bob Sherman.

As a part of the celebration for the Caroline Black Garden joining the Gardens for Peace organization, the Arboretum ran two essay contests—one for New London Senior High School and one for Connecticut College students. The theme of the essay was to demonstrate creatively how gardens could be used to bring about peace on a global level and/or a personal level. Jessica Parades, a sophomore at New London High, took first place for her essay titled “Remembering Eden,” and Yevgeniy Tsifrinovich, a sophomore at Connecticut College, took first place for his essay entitled “The Aura of Peace” in the college competition. Significant parts of Yevgeniy’s essay were read at the Gardens for Peace dedication ceremony in May.



From the top: Shoppers at the first holiday season Botanical Boutique; flyer from Flock Theater Company's Arboretum summer theater presentations; Frank Kaczmarek's photo "Mushroom Gills" won first prize in the annual photo contest; buyers lined up before the opening of the Fall Plant Sale; pumpkin seekers at the Fall Plant Sale.

To quote from Ms. Parades' winning essay " ... if kings and leaders in the past took a few moments aside, in a garden, to think about things before declaring war, many wars would have never taken place."

The Arbo Project, supervised by a CC student and co-sponsored by the Office of Volunteers for Community Service (OVCS) under the direction of Tracee Reiser, is dedicated to environmental education of local children through tours of the Arboretum. In spring, Hope Dalton '01, coordinated this project. Many new organizations that had not previously taken tours became involved. In the fall, Erica Bushey '02 took over the coordinator position. The student volunteers for the Arbo Project were Dan Teinberg, Jordana Gustafson, Kate Tomkins, Katrina Pollack, Vanessa Boland, Laura Rowe, Jessica Schneider, Holly Zielinskie, Annie Curtis, Adam Wainberg, Micah Weisberg, Abby Kutzle, Betsy Ginn,, Emily Mygatt, Ben Griffin, Jared Lamorte, Britt Haselton and John Haberland. In total 328 children were served during 2001 by this student program.

Other outreach activities included private guided tours for community colleges, garden clubs, and other organizations. During summer the Flock Theater continued the tradition of "Shakespeare in the Arboretum" by presenting "As You Like It" in July and Sophocles' "Oedipus Rex" in August for approximately 2,000 people in the Outdoor Theater. In total approximately 3,300 people participated in Arboretum outreach programs, in addition to those mentioned in the previously described Education programs.



TEACHING AND RESEARCH



AFTER A NATIONWIDE SEARCH FOR A PLANT ECOLOGIST, the Botany Department invited Christine J. Small to join them as an Assistant Professor. She received her Ph.D. from Ohio University, Athens, where her dissertation dealt with herbaceous plant diversity in central Appalachian oak forests. In her first semester at Connecticut College, Small found the Arboretum to be the ideal teaching resource for her Systematic Botany and the Local Flora course (BOT 225). In addition to regular field trips, the Arboretum provided much of the plant material used in laboratory sessions. Each student also prepared a collection of plants, largely from Arboretum Natural Areas.

In Professor Robert Askin's Spring Ornithology course (ZOO 204), 12 of the 14 students completed field projects in the Arboretum. They were assigned large plots where they monitored seasonal changes in bird populations and focused on the behavior of a particular bird species. In addition, two of the class field trips were in the Arboretum – the Thames River for wintering waterfowl, and the Arboretum Pond area for spring migrants. Julie Groce '00 conducted fieldwork on waterfowl in Mamacoke and Smith Coves, Thames River, for an individual study project with Dr. Askins.

Director Glenn Dreyer's Environmental Horticulture course (BOT 223) made regular use of all the Arboretum plant collections. In early fall, the class had a lab in the Native Woody Plant Collection during which students installed two replacement River Birch (*Betula nigra* 'Heritage') at the main entrance, and a small shrub planting near the corner of Williams St. and Gallows Lane.

Sixteen students in Professor Harold Juli's Archaeological Interpretation course (ANT 383) worked on a preliminary survey designed to identify Native American sites in the Arboretum. In six, three-hour sessions the students learned aspects of archaeological research design by focusing both on known sites, and on locations whose physical attributes suggested they may have been sites of prehistoric habitation. After orientation sessions, two potential rock shelter sites were examined using small shovel test excavation units. Both contained enough interesting material to warrant further work, and Dr. Juli plans to continue to use these and other sites in his teaching program. His previous archaeological investigations in the Arboretum, from the late 1970s to 1984, are documented in Arboretum Bulletin No. 33.

Assistant Professor Manuel Lizarralde led his 20 Ethnobotany (BOT 228) students on a tour of useful plants found in the Arboretum. The 12 students in Ethnobotany of Southern New England (Bot 311) used the Arboretum regularly as classroom and lab, collecting voucher specimens and other plant materials. They revisited forest plots along Bolles Road that had been used by classes in previous years. Inner bark from freshly fallen trees was collected to extract fiber and make cordage. In one of the class projects a small wigwam was constructed using local material. Another group of four students made a dugout canoe, fashioned from a white pine tree harvested by Arboretum staff in the Native Plant Collection. Lizarralde also supervised Caitlin Thompson '01 in an Anthropology Department Honors Thesis on Native American medicine.

Jean C. Temple '65 Professor of Zoology Stephen Loomis supervised Vetri Nathan '03 and Misha Body '02 on a project documenting freshwater sponge distribution in Southeastern Connecticut. Their study sites included the Arboretum Pond. This study was a continuation of freshwater sponge ecology and physiology research begun in the Arboretum by Professors Fell and Loomis in the mid-1980s.

In Spring 2000 Professor of Botany Peter Siver began teaching Introduction to Environmental Studies (ES 110), a course taught for decades by the late Professor



From top: Christine Small, new ecologist and assistant professor of botany; Professor of Anthropology Harold Juli demonstrating sampling methods to his archaeological interpretation class; ethnobotany students test a dugout canoe, made for a class project, in the Arboretum pond.

William A. Niering. Siver continued the tradition of bringing the class into the Arboretum for several field trips. In his General Limnology course (Bio 307), students collected water from the Arboretum Pond and set up a series of “mini ponds” in the lab. They subjected these to various manipulations and analyzed the results. Siver’s Marine and Fresh Water Botany class (BOT 410) collected plant material from both the Arboretum Pond and the small bog just west of the pond a number of times during the semester.

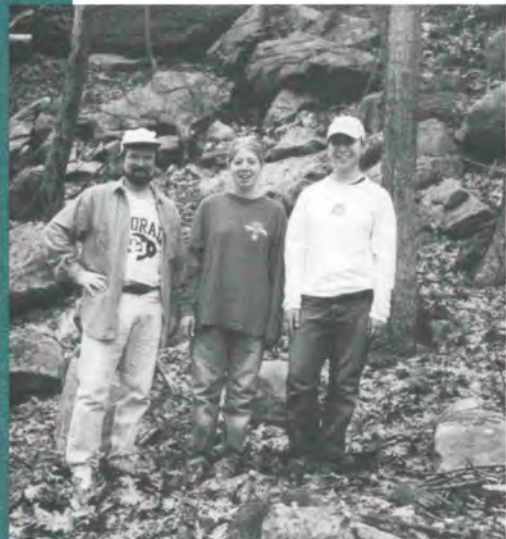
Professor Douglas Thompson’s River Hydrology and Hydraulics course (ES 410) used a drainage channel that flows from under Rt. 32 downhill to the north of the Athletic Complex as a model system. In order to learn the concepts and techniques of successful channel restoration, five students worked together on a semester-long project using this intermittent and highly eroded drainage way as a real life example. After extensive evaluation, they produced a detailed restoration plan.



Lori Walter '00 and Catherine Hulford '02, under my direction, studied the movement and dispersal of the white-footed mouse, *Peromyscus leucopus*, on Mamacoke Island and between Mamacoke Island and the mainland across the Mamacoke salt marsh. The white-footed mouse is a woodland species that can be found along forest edges but seldom inhabits open grasslands or marshes. The Mamacoke salt marsh could serve as a barrier to the movement of the mice between the island and the mainland. As a result, the island population would be isolated from the mainland population and there would be little gene flow between the two. Thus the two populations could be evolving independently.

This research will increase our understanding of the conditions in nature under which genetic divergence can arise between populations of a highly mobile and active animal such as the white-footed mouse. This kind of information is important in understanding the initial stages of isolation and genetic change during the origin of new species. It also has relevance to conservation, indicating whether or not islands and other isolated sites are likely to have genetically distinct forms of the white-footed mouse. Lori and Catherine used live-traps to capture the mice and attached individually numbered ear tags to each mouse. The original capture site and movement between capture sites could then be determined upon the subsequent recapture of the marked individuals. In addition, the sex, age, foot length, tail length and weight were recorded for each individual, and a small tuft of hair was collected for future comparisons of differences in DNA patterns between the island and mainland populations.

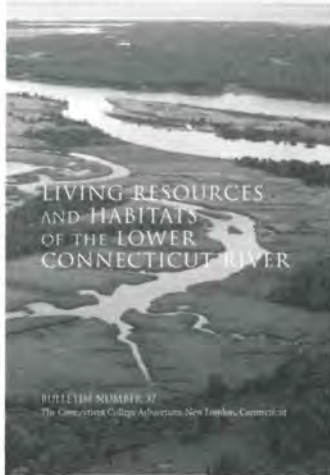
— Phillip T. Barnes, Associate Professor of Zoology



From the top: students Hilary Nasin and Jaime Goode '02 in Professor Thompson's river hydrology and hydraulics course survey their channel restoration site; Professor Barnes with Lori Walter '00 and Catherine Hulford '02 in Mamacoke Island white-footed mouse habitat.

Editors Note: This research description was inadvertently omitted from the year 2000 annual report. It is a good example of the way field studies in the Arboretum and laboratory work can be combined to examine questions in evolutionary biology and conservation.

PUBLICATIONS



ARBORETUM BULLETIN NO 37, "Living Resources and Habitats of the Lower Connecticut River" was published in December. The culmination of a three-year project supported by a grant from the Connecticut Department of Environmental Protection (DEP) Long Island Sound License Plate Grant Program, more than 35,000 copies of the 80-page booklet were printed and widely distributed throughout the region. Collaborators included the Connecticut DEP, the U.S. Fish and Wildlife Service (USFWS) and Connecticut College. Edited by Glenn Dreyer and Marci Caplis (USFWS), the book design was created by Susan Lindberg of the College Relations Office.



The full-color Caroline Black Garden information brochure was completely redesigned to include a new map of the garden with both common and botanical names of key specimens. The new text highlights the garden's history, including its recent inclusion in Gardens for Peace, an international network of gardens described elsewhere in this report. Jerry Poirer of the College Information Services Department provided many of the photographs, and Susan Lindberg did the graphic design.

The "Campus Tree Tour Handbook," which proved a great success with our volunteer campus tour guides, was updated in full color for 2001.

Kathy Garvin and Jerry Poirer designed and produced a 2002 Calendar that featured Jerry's photographs of the Arboretum. It was made available at the year-end Botanical Boutique and also sold in the Arboretum Office.



ADDITIONAL ARBORETUM RELATED PUBLICATIONS:

Askins, R. A. 2001. Sustaining biological diversity in early successional communities: the challenge of managing unpopular habitats. *Wildlife Society Bulletin* 20: 407-412.

Groce, Julie 2001. Comparison of foraging behavior of different species of waterfowl at Mamacoke Island and Smith Cove, Thames River. Individual Study, Zoology Dept.

Thompson, Catilin. 2001. Tracing the roots of Native American medicine. Honor Thesis, Anthropology Department.

Brzozowski, E., J. Goode, L. Hartzell, K. Mitsch and H. Nasin. 2001. River Hydrology and Hydraulics: Channel Restoration Proposal. Class Report, ES 410.

From the top: Bulletin No. 37; 2001 Arboretum Calendar; Caroline Black Garden brochure.

PLANT COLLECTIONS

NATIVE PLANT COLLECTION

An endowed memorial area with a stone bench on the east side of the Arboretum Pond was established to remember Betty Walther. Betty grew up near the college, and often spoke of exploring the Arboretum as a child and how she especially loved the Pond. A memorial gathering was held in June hosted by her brother David and her long time friend Herta Payson.

A new Arboretum sign was finally installed at the Native Plant Collection entrance on Williams Street as part of a pilot project for a campus signage program. The patio at the same entrance was replaced and expanded with new, large, 2-inch thick bluestones.

The Arboretum staff designed, built and installed a set of sprinklers on tall poles in the Edgerton and Stengel Wildflower Garden. Situated on a west-facing wooded slope, the plantings in this garden are sensitive to the cycles of dry weather and benefit from occasional irrigation.

A brief but very damaging storm ripped apart entry oak and beech trees at the Arboretum entrance on Williams Street in July. A falling limb bent the fence and destroyed two young Heritage River Birch trees at main gate. A large oak was later completely removed. The two birches were replaced in an Environmental Horticulture course tree planting workshop session. The same storm also damaged a number of campus trees.

A unique academic collaboration occurred in early November when the Arboretum staff harvested a truckload of small diameter Black Birch (*Betula lenta*) saplings for visiting artist Karen Dolmanisth's installation in the Crosier Williams College Center. Dolmanisth arranged various kinds of natural and man-made objects (saplings, rocks, water, clothing, glass, and other things) in a combination of temporary sculpture and performance art, and created a dance and music performance within the space. She calls these events "action-happenings."

CAROLINE BLACK GARDEN

The Caroline Black Garden received long overdue attention during the past year. The entire area (about 4 acres) was enclosed with a tall fence to halt increasingly intense deer browsing. The black fence is nearly invisible to visitors. Ornamental cedar gates were installed on the main entrances near Vinal Cottage, and copper caps placed on the most visible fence posts along the uphill end of the Garden. The fence has been very effective, with no deer browse noted last winter. The water system, believed to have been originally installed in the 1930s, was completely replaced. Old, clogged galvanized pipe was removed and plastic pipe with copper risers installed in a pattern better suited to the Garden's current configuration.

A permanent reminder of the Caroline Black Garden's inclusion in the Gardens for Peace network (mentioned previously in this report) is a bronze plaque on a slanting bit of rock outcropping near the center of the Garden. Next to the plaque is a new teak bench dedicated by Arboretum member and volunteer Joan Flynn to her parents Frank and Alberta Rushen.

Intern Jessica Korecki'00 completed her inventory of the Caroline Black Garden in the spring. She updated all accession records and collection maps and made new accession labels as needed



From the top: Walther Memorial area in the Native Plant Collection; new entrance sign and patio, Native Plant Collection; new entrance and deer fencing in the Caroline Black Garden.



CAMPUS LANDSCAPE

Caroline Driscoll '84, the 2001-02 Arboretum Intern, began an inventory of the Campus Landscape plant collection this year. A 115-acre area bounded by Lyman Allyn Museum to the south, Benham Avenue to the north, Williams Street to the west, and Mohegan Avenue to the east, the Campus has been the subject of landscape plant inventories since the 1950s. However, it was not until 1993 that the landscape trees of the campus were accessioned as official parts of the Arboretum collections and entered in our database system. Since that time, all newly planted trees and shrubs have been accessioned, but the previously existing shrubs on campus have yet to be identified and brought into our record keeping system. This large area is divided into 96 plant collection locations or zones of different sizes that are mostly delineated by walkways and roads.

NEW CAMPUS LANDSCAPE PLANTS IN 2001

Abelia grandiflora, Glossy Abelia

Acer saccharum 'Bonfire', Bonfire Sugar Maple

Betula nigra 'Heritage', Heritage River Birch

Cryptomeria japonica 'Yoshino'- Yoshino Japanese Cryptomeria

Laburnum x watereri – Golden Chain Tree

Prunus x yedoensis – Yoshino Cherry



A major change to the campus landscape took place with the creation of the regulation soccer-size Freeman Field at the south end of the central green between Cummings Arts Center and Freeman House dormitory. Jim Luce and Glenn Dreyer worked closely with Capital Projects Coordinator Steve George, the engineers and construction personnel, to minimize damage to existing trees around the perimeter of the new field. The field was made possible thanks to a grant from the Horace W. Goldsmith Foundation.

From the top: replacing the water system, Caroline Black Garden; new memorial bench in Caroline Black Garden; construction of Freeman Field, Cummings Arts Center on left.



STAFF AND ASSOCIATES

THE REGULAR ARBORETUM STAFF remained stable during 2001. Our staff members are listed at the end of this report and in the nearby photo caption. Arboretum Interns change regularly, serving for only one or two academic years, and we had two during this reporting period, Jessica Korecki '00 and Caroline Driscoll '84.

Intern Jessica Korecki's major project was inventorying the plant collections of the Caroline Black Garden. She completed this task by the end of her stay in May by measuring, mapping, and labeling every tree and shrub, and entering the data into BG-Base, the Arboretum's curatorial software. She also spent time updating and improving the Arboretum website, supervising volunteers and helping with educational programs. Jessica gave a presentation at the Caroline Black Symposium in May and also gave a plant propagation workshop for our members. She left for a position with a landscape company in Swarthmore, Penn. and we wish her all the best.

Caroline Driscoll '84 was a long-time member and volunteer before taking on the role of Arboretum Intern. Her primary projects were to inventory the Campus Landscape collection, mainly the tree component, and provide additional leadership and support to our Hort Helpers volunteer program. Additional areas in which Caroline provided much appreciated support included giving many guided Arboretum tours to various private and members groups; keeping the web site current; supervising the new pre-order component of the annual plant sale; fabricating display labels for plants; and providing hours of general office and horticultural assistance.

Last but not least, Connecticut College students worked with both our horticultural and administrative staff providing invaluable service to the Arboretum. It is not an exaggeration to say that we could not possibly provide our current level of service and stewardship without them. Our hearty thanks go out to our student workers.



From the top: Arboretum staff (l to r) Craig Vine, Anne Davis, Chip McIlwain, Kathy Garvin, Jeff Smith and Glenn Dreyer; Arboretum intern 2001-02 Caroline Driscoll; Arboretum intern 2000-01 Jessica Korecki.

STUDENT WORKERS 2001

Spring

Courtney Geeter '02
 Vasilena Gocheva '04
 Julie Groce '01
 Dan Greenblatt '03
 Graham Grilli '03
 Daisy Small '03
 Eliot Stulen '04
 Kassie Rohrbach '03
 Susie Mattke-Robinson '04
 Leah Murphy '04

Summer

Nana Kofi Ampaw '04
 Daisy Small '03

Fall

Amy Angell '05
 Stephen Apse '03
 Courtney Geeter '02
 Vasilena Gocheva '04
 Rory Jose '05
 Susan Lasewiski '05
 David Lloyd '04
 Ross Morin '05
 Adam Scala '05
 Daisy Small '03
 Eliot Stulen '04
 Eli Trowbridge '05
 Katherine Varnum '05



From the top: Betty Pinson, Joan Flynn and Caroline Driscoll at the Plant Sale; volunteers on a salt marsh ecology field trip with Prof. R. Scott Warren; volunteers visit Harvard Forest, Petersham, Mass.

VOLUNTEERS

Many of the Arboretum education and outreach programs would not be possible without the support of the volunteers. Volunteers play a vital role in our public and private tours of the Arboretum plant collections, the plant sale, and this year at the Botanical Boutique. They also assist in many of our other events such as Members' and Friends' night, and public education classes.

In April, as a volunteer educational opportunity, Herster Barres of Reforest the Topics Inc. spoke of mitigating the global warming effects of greenhouse gases by plantations of fast growing trees in Costa Rica. Another opportunity came in July with Dr. R. Scott Warren, Professor of Botany, leading a tidal marsh ecology walk on Barn Island. In June 2001, for a volunteer appreciation event, the staff and volunteers traveled by bus to Harvard Forest and the Fisher Museum, where we were given a tour by Dr. John O'Keefe, Museum Director. In April, we began the official volunteer season by having a barbecue at Buck Lodge, and in the fall closed the season with a potluck there as well. In early May, review tours of our collections were given to docents in preparation for upcoming free Sunday afternoon public tours. Caroline Driscoll joined the team in July as the Arboretum Intern and worked extensively coordinating the Hort Helpers, who assisted in the upkeep of the collections, prepared for the plant sale and made "hort" items for the boutique.

Our Volunteer of the Year award this year went to Caroline Driscoll for her outstanding service. The awards were presented on Members' and Friends' Night in early June. The Arboretum staff greatly appreciates the devotion shown by our volunteers in all aspects of our programs, and looks forward to many more productive years of collaboration.

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From top: Arboretum volunteer photographer Jerry Poirier at the Botanical Boutique; Joyce Luce, Wendy Dreyer and a friend at the Volunteer Potluck.

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